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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/731,669
	Filing Date	December 8, 2003
	First Named Inventor	Brown et al.
	Art Unit	Not Yet Known
	Examiner Name	Not Yet Known
Total Number of Pages in This Submission	Attorney Docket Number	EPC-00007

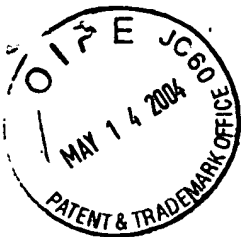
ENCLOSURES (Check all that apply)		
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<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Form PTO-1449 and 9 references cited thereon
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<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Randolph J. Huis Volpe and Koenig P.C. Reg. No. 34,626
Signature	
Date	5/12/2004

CERTIFICATE OF TRANSMISSION/MAILING	
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Typed or printed name	Randolph J. Huis
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Date	5/12/2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Brown et al.

Application No.: 10/731,669

Confirmation No.: Not Yet Known

Filed: December 8, 2003

For: A CONNECTOR FOR MAKING
ELECTRICAL CONTACT AT
SEMICONDUCTOR SCALES

Group: Not Yet Known

Examiner: Not Yet Known

Our File: EPC-00007

Date: May 12, 2004

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Further to Applicants' Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicants wish to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Pursuant to Pre-Official Gazette Notice signed July 11, 2003 waiving the requirements under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003, copies of the cited U.S. documents have not been included. Copies of all other cited references are enclosed.

Only abstracts of Japanese publications 2000011443 and 2001203435 are provided.

Applicant: Brown et al.
Application No.: 10/731,669

Some of these documents were cited in at least one of the Office Actions dated December 29, 2003, April 9, 2004 and April 12, 2004 that were issued in co-pending applications 10/460,496, 10/460,501 and 10/460,504, each filed on June 11, 2003.

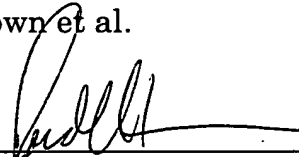
To the best knowledge of the undersigned, this Information Disclosure Statement is being submitted prior to a first Office Action on the merits. Accordingly, no fee is required.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

Brown et al.

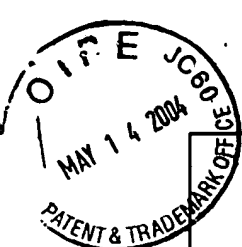
By



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RJH/DPD/lhc
Enclosures



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO. EPC-00007		SERIAL NO. 10/731,669	
				APPLICANT Brown et al.			
				FILING DATE December 8, 2003		GROUP Not Yet Known	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,634,807	01/1972	Grobe et al.			
	AB	4,998,885	03/1991	Brian S. Beaman			
	AC	5,152,695	10/1992	Grabbe , et al.			
	AD	5,199,879	04/1993	Kohn et al.			
	AE	5,228,861	07/1993	Dimitry G. Grabbe			
	AF	5,257,950	11/1993	Lenker et al.			
	AG	5,468,655	11/1995	Greer			
	AH	5,530,288	06/1996	David B. Stone			
	AI	5,532,612	07/1996	Liang			
	AJ	5,593,903	01/1997	Beckenbaugh et al.			
	AK	5,632,631	05/1997	Fjelstad et al.			
	AL	5,772,451	06/1998	Dozier et al.			
	AM	5,791,911	08/1998	Fasano et al.			
	AN	5,802,699	09/1998	Fjelstad et al.			
	AO	5,812,378	09/1998	Fjelstad et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AP	EP 0692823 AI	01/1996	Europe			X
	AQ	JP2000011443	04/2000	Japan			X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	U.S. Publication No. 2002/0011859 AI; 01/31/02; Smith et al.					
	AS	U.S. Publication No. 2002/0058356 AI; 05/16/02; Oya					
	AT	U.S. Publication No. 2002/0079120 AI; 06/27/02; Eskildsen et al.					
	AU	U.S. Publication No. 2002/0129894 AI; 09/19/02; Liu et al.					

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	AV	5,842,273	12/1998	Schar				
	AW	5,860,585	01/1999	Rutledge et al.				
	AC	5,896,038	04/1999	Budnaitis et al.				
	AY	5,934,914	08/1999	Fjelstad et al.				
	AZ	5,967,797	10/1999	Maldonado				
	BA	6,019,611	02/2000	McHugh et al.				
	BB	6,032,356	03/2000	Eldridge et al.				
	BC	6,063,640	05/2000	Mizukoshi et al.				
	BD	6,133,534	10/2000	Fukutomi et al.				
	BE	6,156,484	12/2000	Bassous et al.				
	BF	6,184,699	02/2001	Smith et al.				
	BG	6,196,852	03/2001	Neumann , et al.				
	BH	6,200,143	03/2001	Haba et al.				
	BI	6,204,065	03/2001	Toshimasa Ochiai				
	BJ	6,205,660	03/2001	Fjelstad et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BK	JP2001203435	07/2001	Japan				
	BL	9602068	01/1996	WO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
	BM	U.S. Publication No. 2002/0133941 A1;09/26/02;Akram et al.						
	BN	U.S. Publication No. 2002/0146919 A1;10/10/02;Cohn						
	BO	U.S. Publication No. 2002/0179331 A1;12/05/02;Brodsky et al.						
	BP	U.S. Publication No. 2003/0089936 A1;05/15/03;McCormack et al.						

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	APPLICANT Brown et al.	
	FILING DATE December 8, 2003	GROUP Not Yet Known

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BQ	6,208,157	03/2001	Akram et al.			
	BR	6,224,392	05/2001	Fasano et al.			
	BS	6,250,933	06/2001	Khoury et al.			
	BT	6,264,477	07/2001	Smith et al.			
	BU	6,293,808	09/2001	Toshimasa Ochiai			
	BV	6,298,552	10/2001	Yu-Sung Li			
	BW	6,335,210	01/2002	Farooq et al.			
	BX	6,336,269	01/2002	Eldridge et al.			
	BY	6,337,575	01/2002	Akram			
	BZ	6,373,267	04/2002	Hiroi			
	CA	6,374,487	04/2002	Haba et al.			
	CB	6,392,524	05/2002	Biegelsen et al.			
	CC	6,420,661	07/2002	Di Stefano et al.			
	CD	6,420,789	07/2002	Tay et al.			
	CE	6,420,884	07/2002	Khoury et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	CF	9744859	11/1997	WO				
	CG	0213253	02/2002	WO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	CH	U.S. Publication No. 2003/0096512 A1;05/22/03;Cornell
	CI	U.S. Publication No. 2003/0099097 A1;05/29/03;Mok et al.
	CJ	U.S. Publication No. 2003/0147197 A1;08/07/03;Uriu et al.
	CK	U.S. Publication No. 2003/0194832 A1;10/16/03;Lopata et al.

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				FILING DATE December 8, 2003		GROUP Not Yet Known	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	CL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	CL	6,428,328	08/2002	Haba et al.			
	CM	6,437,591	08/20/02	Farnworth et al.			
	CN	6,442,039	08/2002	Schreiber			
	CO	6,461,892	08/2002	Masud Beroz			
	CP	6,474,997	11/2002	Toshimasa Ochiai			
	CQ	6,492,251	12/2002	Haba et al.			
	CR	6,520,778	02/2003	Eldridge et al.			
	CS	6,551,112	04/2003	Li et al.			
	CT	6,616,966	09/2003	Mathieu et al.			
	CU	6,627,092	09/2003	Clements , et al.			
	CV	6,640,432	11/2003	Mathieu, et al			
	CW	6,671,947	01/2004	Mart T. Bohr			

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL	CL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
	CX	An article entitled "Patented Socketing System for the BGA/CSP Technology" by E-tec Interconnect Ltd., pages 1-4
	CY	Gary B. Kromann et al., "Motorola's PowerPC 603 and PowerPC 604 RISC Microprocessor: the C4/Ceramic-ball-grid Array Interconnect Technology", Motorola Advanced Packaging Technology, Motorola, Inc., 1996, pages 1-10
	CZ	Ravi Mahajan et al., "Emerging Directions for Packaging Technologies", Intel Technology Journal, V. 6, Issue 02, 16 May 2002, pages 62-75

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